

Serial No.: 10/573,928
Art Unit: 2621

PU030162
Customer No. 24498

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Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) A method for temporal concealment of at least one of a missing or corrupted macroblocks in a video stream coded in direct mode, comprising the steps of:

- identifying at least one missing or corrupted macroblock;
- finding a co-located macroblock in a first previously transmitted picture;
- determining a co-located motion vector for the co-located macroblock;
- scaling the determined co-located motion vector in accordance with a picture distance;
- predicting the at least one missing or corrupted data for the identified macroblock by motion compensating data from both the first previously transmitted picture and a second previously transmitted reference picture in accordance with the scaled co-located motion vector.

2. (Previously presented) The method according to claim 1 wherein the at least one missing-or corrupted data is predicted using a temporal-direct mode.

3. (Previously presented) The method according to claim 1 wherein the at least one missing or corrupted data is predicted using one of the temporal and spatial-direct modes derivation processes in accordance with at least one criterion selected prior to such predicting.

4. (Original) The method according to claim 3 wherein selection of one of the temporal and spatial-direct modes derivation processes is made in accordance with concealment region size.

Serial No.: 10/573,928
Art Unit: 2621

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Customer No. 24498

5. (Original) The method according to claim 4 wherein selection of one of the temporal and spatial-direct modes derivation processes is made in accordance a derivation mode of neighboring slices.
6. (Previously presented) The method according to claim 1 wherein the at least one missing or corrupted data is predicted by the steps of:
 - performing the temporal and spatial-direct modes derivation processes; and
 - selecting results of one of the temporal and spatial-direct modes derivation processes in accordance with at least one a posteriori criterion.
7. (Original) The method according to claim 1 further comprising the step of deriving a size of blocks in the first and second pictures to which to apply the co-located motion vector.
8. (Original) The method according to claim 1 wherein the results are selected in accordance with a boundary strength value of deblocking in accordance with the ITU H.264 coding standard.
9. (Previously presented) The method according to claim 1 wherein the at least one missing or corrupted data is predicted using a temporal-direct mode defined in the ITU H.264 coding standard.
10. (Currently amended) A method for temporal concealment of at least one missing or corrupted macroblocks in a video stream coded in direct mode in accordance with the ISO/ITU H. 264 coding standard, comprising the steps of:
 - identifying at least one missing or corrupted macroblock;
 - finding a co-located macroblock in a first previously transmitted picture;
 - determining a reference index and a motion vector for the co-located macroblock;
 - scaling the motion vector;
 - selecting a second previously transmitted picture in accordance with the reference index; and

Serial No.: 10/573,928
Art Unit: 2621

PU030162
Customer No. 24498

predicting the at least one missing or corrupted data for the identified macroblock by motion compensating data from the first and second previously transmitted reference pictures in accordance with the determined and scaled motion vector.

11. (Previously presented) The method according to claim 10 wherein the at least one missing or corrupted data is predicted using a temporal-direct mode defined in the ITU H.264 coding standard.
12. (Previously presented) The method according to claim 10 wherein the at least one missing or corrupted data is predicted using a spatial-direct mode defined in the ITU H.264 coding standard.
13. (Previously presented) The method according to claim 10 wherein the at least one missing or corrupted data is predicted using one of the temporal and spatial-direct modes derivation processes defined in the ITU H.264 coding standard in accordance with at least one criterion selected prior to such predicting.
14. (Original) The method according to claim 10 wherein selection of one of the temporal and spatial-direct modes derivation processes is made in accordance with concealment region size.
15. (Previously presented) The method according to claim 14 wherein selection of one of the temporal and spatial-direct modes derivation processes is made in accordance a derivation mode of neighboring slices.
16. (Previously presented) The method according to claim 10 wherein the at least one missing or corrupted data is predicted by the steps of:
 - performing the temporal and spatial-direct modes derivation processes defined in the ITU H.264 coding standard; and
 - selecting results of one of the temporal and spatial-direct modes derivation processes in accordance with at least one a posteriori criterion.

Serial No.: 10/573,928
Art Unit: 2621

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Customer No. 24498

17. (Original) The method according to claim 16 wherein the results are selected in accordance with a boundary strength value of deblocking in accordance with the ITU H.264 coding standard.